

CHAPTER 1 TEMPORARY EROSION CONTROL MANAGEMENT

1.1 Introduction

The requirement that erosion control be initiated on all exposed soil surfaces within a given timeframe is an integral compliance component on virtually all construction and maintenance projects. Temporary erosion control best management practices (BMPs) are short-term measures that should only be considered during a period where areas are disturbed due to construction. When an emergency such as a slide or flood occurs, a temporary BMP should facilitate erosion protection, or at least be compatible with, long-term or permanent BMPs.

A temporary erosion control BMP is normally used for 1—6 months, or until a more permanent BMP is put into place. Temporary BMPs are used to reduce or eliminate erosion and are designed and installed to keep as much sediment on-site as possible.

The proper use of temporary BMPs allow for cleaner water runoff into the receiving waters such as streams, rivers, and lakes. Erosion control is the primary and initial consideration in a construction soil-disturbing project. If erosion control is performed correctly, there should be little or no sediment collection needed.

1.2 Erosion Control Goals

Erosion control goals can be separated into three categories.

1. Perimeter Controls

- a. Ensure that no sediment, or only a minimal amount, enters or leaves the project area.
- b. Treat or filter sediment-laden discharge waters as many times as possible needed to meet standards, before leaving the project area.

2. Controls within the Project

- a. Maintain erosion control on cut-and-fill slopes and in the ditches or channels.
- b. Prevent erosion on undisturbed areas.
- c. Divert stormwater away from the project, and especially disturbed areas.
- d. Protect all bodies of water (ponds, streams, wetlands, etc.).

3. Final Product

- a. Coordinate all temporary erosion controls to facilitate permanent measures.

1.3 Best Management Practices (BMP)

Erosion control involves the use of the following BMPs:

	Typical Highway Construction Activities																											
Temporary Sediment Control Management Best Management Practices	Demolish Pavement/Structures	Clear and Grub	Construct Access Road	Grading (inc. cut and fill slopes)	Channel Excavation	Channel Paving	Trenching/Underground Drainage	Underground Drainage Facility Installation	Drainage Inlet Modification	Utility Trenching	Utility Installation	Subgrade Preparation	Base Paving	AC Paving	Concrete Paving	Saw Cutting	Joint Sealing	Grind/Groove	Structure Excavation	Erect Falsework	Bridge/Structure Construction	Remove Falsework	Striping	Miscellaneous Concrete Work	Sound Walls/Retaining Walls	Planting and Irrigation	Contractor Activities	Treatment BMP Construction
EC-1 Scheduling/Sequencing of Construction Activities	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	
EC-2 Preservation of Existing/Natural Vegetation		X	X	X			X	X		X									X	X		X			X			
EC-3 Cofferdam			X		X		X														X							
EC-4 Diversion Channels/Ditches		X	X	X																	X							
EC-5 Slope Drains				X																	X							
EC-6 Hydraulic Mulch	X	X		X	X																X					X	X	
EC-7 Hydroseeding	X	X		X	X																X					X	X	
EC-8 Soil Binders	X	X		X	X														X		X					X	X	
EC-9 Straw Mulch	X	X	X	X	X		X	X		X		X							X		X					X	X	
EC-10 Wood Mulching	X	X	X	X	X		X	X		X		X							X		X					X	X	
EC-11 Geotextiles, Plastic	X	X	X	X	X		X	X		X		X							X		X					X	X	

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